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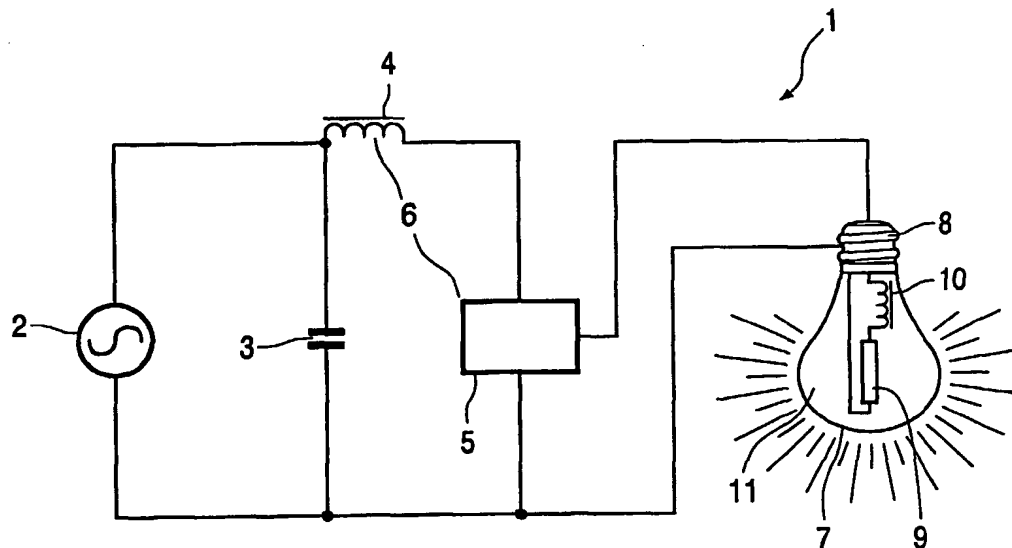
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(54) Title: **ELECTRIC CIRCUIT FOR IGNITING A DISCHARGE LAMP, AND ELECTRIC COMPONENT MODULE AND DISCHARGE LAMP INCORPORATING SUCH AN ELECTRIC CIRCUIT**



(57) Abstract: The invention relates to an electric circuit for igniting a discharge lamp, comprising a voltage source, at least one first condenser electrically connected to the voltage source, a series chain, electrically connected in parallel with the first condenser, of at least one ignition and at least one first inductor, and a discharge lamp electrically connected in parallel with the ignition, which discharge lamp is provided with a discharge vessel. The invention also relates to an electrical component module for use in such an electric circuit. The invention further relates to a discharge lamp for use in such an electric circuit.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7⁰ H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 466 169 A (NICOLAS JEAN PIERRE) 27 March 1981 (1981-03-27) page 5, line 2 -page 5, line 14; figures 1,3	1-4
X	US 6 191 538 B1 (HIRSCHMANN GUENTHER ET AL) 20 February 2001 (2001-02-20) figures 1,2	1-4
A	US 6 320 328 B1 (KENYON LEWIS W ET AL) 20 November 2001 (2001-11-20) column 1, line 21 -column 2, line 17 column 3, line 1 -column 4, line 30; figures 1-4	1-4

☒ Further documents are listed in the continuation of box C.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 93 04478 A (NOVEM ENERGY SAVINGS BV) 4 March 1993 (1993-03-04) page 4, line 2 -page 4, line 7; figures 4,5 -----	1
A	US 4 714 862 A (DANNERT HORST ET AL) 22 December 1987 (1987-12-22) figures 1,5 -----	1
A	FR 2 502 443 A (AUGIER ETS) 24 September 1982 (1982-09-24) figure 2 -----	6,11

INTERNATIONAL SEARCH REPORT

PCT/IB 03/00539

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2466169	A	27-03-1981	FR 2466169 A1	27-03-1981
US 6191538	B1	20-02-2001	DE 19909529 A1	07-09-2000
			EP 1033906 A2	06-09-2000
			HU 0000994 A2	28-09-2000
			JP 2000286081 A	13-10-2000
US 6320328	B1	20-11-2001	CA 2306294 A1	30-10-2000
WO 9304478	A	04-03-1993	WO 9304478 A1	04-03-1993
US 4714862	A	22-12-1987	DE 3438002 A1	17-04-1986
			CA 1255744 A1	13-06-1989
			DE 3581041 D1	07-02-1991
			EP 0178735 A1	23-04-1986
			HU 39036 A2	28-07-1986
			JP 61096698 A	15-05-1986
FR 2502443	A	24-09-1982	FR 2502443 A1	24-09-1982